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(56) Documents Cited

GB 2219710 A

GB 2195788 A

GB 2138373 A

GB 1517386 A

WO 92/22172 A1

US 5351621 A

US 5255096 A

US 5225863 A

US 4777527 A

US 4768090 A

(58) Field of Search

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(54) Abstract Title

Surveillance television camera mounted on a track or cable within a sports stadium or within a goal post or crossbar

(57) Surveillance system includes unmanned television cameras running on rails. They could be traveling on the ground or a meter above ground level on a continuous rail all around the stadium or they could be hanging from high level continuous cables or rails suspended from buildings or cantilevers all around a stadium. They may be mounted inside a dome and could rotate through 360 degrees in all directions and travel along the cable, following the action wherever it would be required. The cameras could be small enough to fit inside a goal post, a cross bar or the pole of a corner flag traveling inside it up and down if required. They could also be housed inside special poles erected behind the goals.

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RAIL — CAM

RAIL —CAM IS AN IDEA OF MOBILE CAMERA OR CAMERAS THAT CAN BE RUN ON A TRACK OR RAIL TO FOLLOW AN ACTION IN A SPORT EVENT i.e. FOOTBALL AND TRACK AND FIELD, RUGBY ETC. IT CAN ALSO BE USED TO MONITOR SECURITY IN TOWN CENTERS AND LARGE DEVELOPMENTS AS PART OF THE SECURITY SYSTEMS.

THESE CAMERAS CAN BE MOUNTED ON VARIOUS RAILS AND TRACKS , THEY CAN ALSO BE HANGED FROM CABLE AT HIGH LEVEL USING THE CABLE AS A LIVE ELECTRIC CABLE AND WOULD NOT NEED ANY TRAILING CABLES TO FOLLOW THE CAMERAS AS THEY TRAVEL TO AND FROM A SET STATION. THE CAMERA WOULD BE HOUSED INSIDE A PLASTIC DOME THAT CAN REVOLVE 360 DEGREES IN ALL DIRECTIONS. THE RAIL COULD BE ONE METER OF THE GROUND OR ON THE GROUND ITSELF ON TRACK BUT THE CAMERA WOULD BE ABLE TO RISE TELESCOPICALLY FROM ITS USUAL POSITION TO SHOW DIFFERENT ASPECT OF THE ACTION. THE CAMBERS COULD ALSO BE HOUSED INSIDE THE POST OF THE CORNER FLAG IN A FOOTBALL MATCH OR RUGBY ETC.

IT COULD ALSO BE INSTALLED INSIDE THE GOAL POSTS OR THE CROSS BAR OF A FOOTBALL FIELD AND TRAVEL INSIDE THE POST AND CROSS BAR TO SHOW CLOSE UP ACTION OF A GOAL ATTEMPT OR A SAVE, THEY COULD ALSO BE HOUSED INSIDE SPECIAL ERECTED POLES BEHIND THE GOALS IF REQUIRED.

CLAIMS

1. RAIL-CAM IS AN IDEA TO MOUNT CAMERAS ON RAILS AT LOW OR HIGH LEVEL, UNMANNED AND CAN BE CONTROLLED BY AN OPERATOR USING REMOTE OR MANUAL CONTROL LEVER TO RUN THE CAMERAS ALONG THE RAIL TO FOLLOW AN ACTION AS IN A SPORTS EVENT OR MONITORING SITUATION FOR DIFFERENT SECURITY APPLICATIONS LIKE CROWD CONTROL AND LOCATING FOOTBALL OR ANY OTHER SPORT HOOLIGANS.
2. RAIL-CAM AS CLAIMED IN CLAIM 1 AND CAN BE A ROTATING CAMERAS THROUGH 360 DEGREES IN ALL DIRECTIONS HOUSED INSIDE A DOME HANGING UPSIDE DOWN FROM A RAIL THAT COULD BE A LIVE CABLE .
3. RAIL-CAM AS CLAIMED IN CLAIM 1 OR CLAIM 2 AND COULD RUN ON CONTINUOUS RAILS AT GROUND LEVEL OR A METER HIGH RAIL ALL AROUND THE STADIUM AND CAN BE RAISED TELESCOPIC ALLY TO HIGHER LEVEL AS IT IS TRAVELING ALONG THE CONTINUOUS RAIL.
4. RAIL-CAM AS CLAIMED IN CLAIM 2 OR CLAIM 3 AND COULD BE INSTALLED INSIDE THE POSTS OF A GOAL POSTS OR THE CROSSBAR AS IN A FOOTBALL OR RUGBY FIELD AND BEING ABLE TO TRAVEL INSIDE THE POSTS AND THE CROSSBAR TO THE REQUIRED HEIGHT TO SHOW THE BEST POSSIBLE PICTURE THROUGH A CLEAR GAP THAT WOULD BE CUT OUT FROM THE POSTS AND CROSSBARS.
5. RAIL-CAM AS CLAIMED IN CLAIM 3 OR CLAIM 4 AND COULD BE INSTALLED INSIDE THE POLE OF ALL CORNER FLAGS ON A FOOTBALL FIELD AND COULD HOUSED INSIDE SPECIAL POLES BEHIND THE GOAL POSTS TO SHOW DIRECTIONS OF GOAL ATTEMPTS .
6. RAIL-CAM AS CLAIMED IN ANY PROCEEDING CLAIM AND THE CAMERAS COULD BE HANGED FROM A RAIL WHICH WOULD BE SUSPENDED FROM THE CANTILEVER OF A STADIUM AND BE ABLE TO TRAVEL THE FULL LENGTH OR THE WIDTH OF THE STADIUM OR ALL AROUND ON A CONTINUOUS RAIL OR CABLE WHICH COULD BE ELECTRICALLY LIVE CABLE AND MAY ACCOMMODATE SEVERAL CAMERAS CONTROLLED INDIVIDUALLY BY ONE OR MORE OPERATORS .



Application No: GB 9800963.2
Claims searched: 1-6

Examiner: John Coules
Date of search: 24 February 1998

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.P): H4F FAAE,FAAX,FAAA,FDX,FJL,FJX

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Other:

Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
X	GB 2219710 A	(Techno-Tip)	1 at least
X	GB 2195788 A	(Granada Television)	1 at least
X	GB 2138373 A	(Devon Alarm)	1 at least
X	GB 1517386	(J M Coutta)	1 at least
X	WO 92/22172 A1	(Video Sentry)	1 at least
X	US 5351621	(Hitachi)	1 at least
X	US 5225863	(I Weir-Jones)	1 at least
X	US 5255096	(W M Boyle)	1 at least
X	US 4777527	(Compagnie Generale D'Automatisme)	1 at least
X	US 4768090	(Compagnie Generale D'Automatisme)	1 at least

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.